

Fig. 1

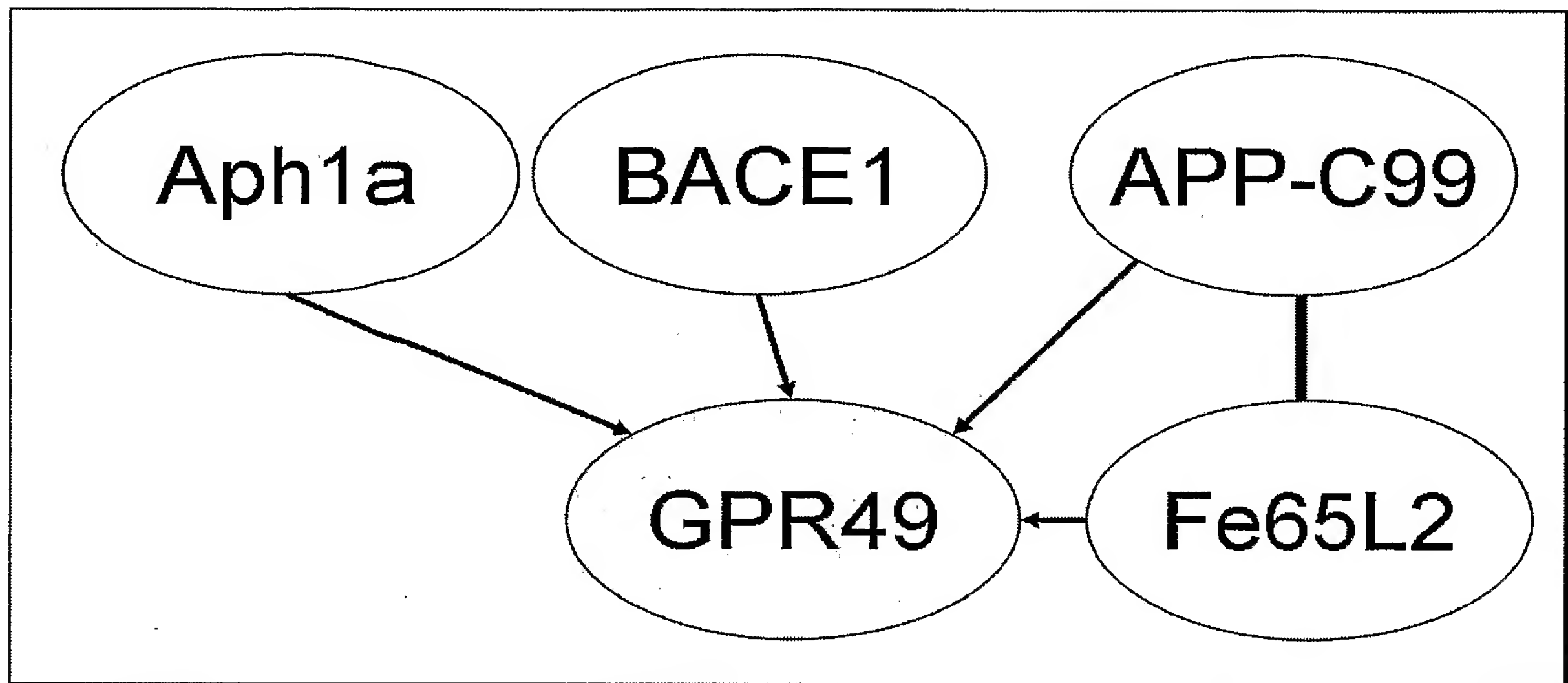
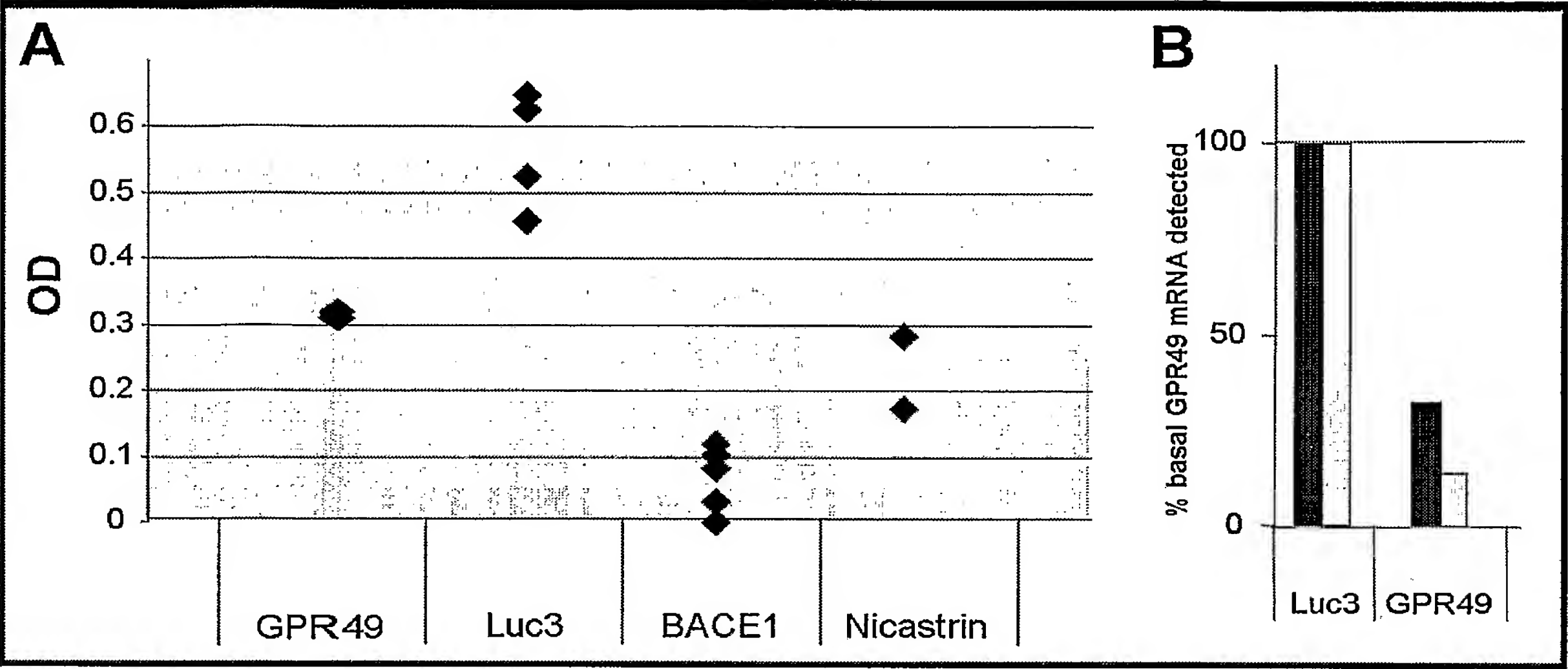


Fig. 2



**Fig. 3**

	MDTSRLGVLL	SLPVLLQLAT	GGSSPRSGVL	LRGCPTHCHC	EPDGRMLLRV
	DCSDLGLSEL	PSNLSVFITY	LDLSMNNISQ	LLPNPLPSLR	FLEELRLAGN
5	ALTYIPKGAF	TGLYSLKVLM	LQNNQLRHVP	TEALQNLRSI	QSLRLDANHI
	SYVPPSCFSG	LHSLRHLWLD	DNALTEIPVQ	AFRSLSALQA	MTLALNKHII
	IPDYAFGNLS	SLVVLHLHNN	RIHSLGKKCF	DGLHSLETLD	LNYNLDEFD
	TAIRTLNLK	ELGFHSNNIR	SIPEKAFVGN	PSLITIHFD	NPIQFVGRSA
	FQHLPELRTL	TLNGASQITE	FPDLTGTANL	ESLTLTGAQI	SSLPQTVCNQ
10	LPNLQVLDLS	YNLLEDLPSF	SVCQKLQKID	LRHNEIYEIK	VDTFQQLLSL
	RSLNLAWNKI	AIHPNAFST	LPSLIKLDLS	SNLLSSEFPI	GLHGLTHLKL
	TGNHALQSLI	SSENFPELV	IEMPYAYQCC	AFGVCENAYK	ISNQWNKGDN
	SSMDDLHKKD	AGMFQAQDER	DLEDFLLDFE	EDLKALHSVQ	CSPSPGPFKP
	CEHLLDGWLI	RIGVWTIAVL	ALTCNALVTS	TVFRSPLYIS	PIKLLIGVIA
15	AVNMLTGVSS	AVLAGVDAFT	FGSFARHGAW	WENGVGCHVI	GFLSIFASES
	SVFLLTLAAL	ERGFVKYSA	KFETKAPFSS	LKVIILLCAL	LALTMAAVPL
	LGGSKYGASP	LCLPLPFGEF	STMGYMVALI	LLNSLCFLMM	TIAYTKLYCN
	LDKGDLENIW	DCSMVKHIAL	LLFTNCILNC	PVAFLSFSSL	INLTFISPEV
	IKFILLVVVP	LPACLNPLLY	ILFNPHFKED	LVSLRKQTYV	WTRSKHPSLM
20	SINSDDVEKQ	SCDSTQALVT	FTSSSITYDL	PPSSVPSPAY	PVTESCHLSS
	VAFVPCL				

Fig. 4 (1/2)

5	LGR5	MDTSRLGVLLSLPVLLQLATGGSSPRSGVLLRGCPHCHCEPDGRMLLRVDCSDLGLSELPSNLSVFTSYLDLSMNNISQ
	LGR6	-----MRLEGEGRSARAGQNLSRAGSARRGAPR-----DLSMNNLTE
	LGR4	-----MPGPLGLLCFLALGILLGSAGPSGAAPPLCAAPCSCDGD RR-----VDCSGKGLTAVPEGLSAFTQALDISMNNITQ
	Consensus/80%	.....b.L.h.Gpts.tG.....sss.pps.sc.....DLSMNN1*p
10	LGR5	LLPNPLPSLRFLEELRLAGNALTYIPKGAFITGLYSLKVLMLQNNQLRHVPTEALQNLRSLSLRLDANHISYVPPSCFSG
	LGR6	LQPGLFHHLRFLEELRLSGNHLSHIPGQAFSGLYSLKILMLQNNQLGGI PAEALWELPSLQSL-----
	LGR4	LPEDAFKNFPFLEELQLAGNDLSFIHPKALSGLKELKVLTLQNNQLKTVPSEAIRGLSALQSLRLDANHITSVPEDSFEG
	Consensus/80%	L..s.b.pb.FLEELpLtGN.L*aI...Ab*GLbpLKlLhLQNNQL.hLPsEAlb.L.tLQSL.....
15	LGR5	LHSLRHLWLDDNALTEIPVQAFRSLSALQAMTLALNKIHHIPDYAFGNLSSLVVLHLHNNRIHSLGKKCFDGLHSLETLD
	LGR6	-----D
	LGR4	LVQLRHLWLDDNSLTEVPVHPLSNLPTLQALTALNKISSIPDFAFTNLSSLVVLHLHNNKIRSLSQHCFDGLDNLETLD
	Consensus/80%	.....D
20	LGR5	LNYYNLDEFPTAIRTLNLKELGFSNNIRSIPEKAFVGNPSLITIHFYDNPIQFVGRSAFQHLPELRTLTLNGASQITE
	LGR6	LNYNKLQEFPAIRTLGRLQELGFHNNNIKAIPEKAFMGNPLLQTIHFYDNPIQFVGRSAFQYLPKLHTLSLNGAMDIQE
	LGR4	LNYYNLGEFPQAIKALPSLKELGFSNSISVIPDGAFDGNPLLRTIHLNDPLSFVGNSAFHNLSDLHSLVIRGASMVQQ
	Consensus/80%	LNYNpL.EFP.AI+sLspLpELGFHsNsIpsIP-.AF.GNP.LbTIHbYDNPlpFVGpSAFp.LscL+*LslpGA..lpp
25	LGR5	FPDLTG TANLES LTLTGAQISSLPQTVCNQLPNLQVLDLSYNLLEDLPSFSVCQKLQKIDLRHNEIYEIKVDTFQQLLSL
	LGR6	FPDLKGTTSLEILTLTRAGIRLLPSGMCQQLPRLRVLELSHNQIEELPSLHRCQKLEEIGLQHNRIWEIGADTFSQLSSL
	LGR4	FPNLTGTVHLES LTLTGTKISSIPNNLCQEQMLRTL DLSYNNIRDLP SFNGCHALEEISLQRNQIYQIKEGTFQGLISL
	Consensus/80%	FpSLpGTspLE.LTLT.s.Ip..lPpshCpb..LpsL-LSaN.lc-LPSbp.Cp.LpcIsLp+NpIapI..sTFp.L.SL
30	LGR5	RSNLAWNKIAIIHPNAFSTLPSLIKLDLSSNLLSSFPITGLHGLTHLKL TGNHALQSLISSENFPELKVIEMPYAYQCC
	LGR6	QALDLSWNAIRSIHPEAFSTLHSLVKLDLTDNQLTTLPLAGLGGLMHLKLKGNLALSQAFSKDSFPKLRILEVPIYAYQCC
	LGR4	RILDLSRNLIHEIHSRAFATLGPITNLDVSFNELT SFTEGLNGLNQLKLVGNFKLKEALAAKDFVNLRSLSVPIYAYQCC
	Consensus/80%	p.LsLtbN.I..IHspAFtTL.sIhpLDl*.NbL**bPh.GL.GL.pLKL.GNb.Lpphbt.csFspL+.lphPYAYQCC
35	LGR5	AFGVCENAYKISNQWNKGDNS SMDD-LHKKDAGMFOAQDE----RDLEDFLLDFEEDLKALHSVQCSPSPGPFKPCHELL
	LGR6	PYGMCAFFKASGQWEAEDLHLDDEESSKRPLGLLARQAENHYDQDLDELQLEMEDS-KPHPSVQCSPTPGPFKPCYLF
	LGR4	AFWGCDSYANLN----TEDNSLQDHSVAQEKGKCMSTADA-----ANVTSTLENEEHSQIIHCTPSTGAFKPCYLL
	Consensus/80%	sahhC.shhphs.....D.p..Dc...pc.h.hb...s.....ph..pbEpp.+sb..lpC*P*sGsFKPCEaLb
40	LGR5	DGWLIRIGVWTIAVLALTCNALVTSTVFR-SPLYISPIKLLIGVIAAVNMLTGVS SAVLAGVDAFTFGSFARHGAWWENG
	LGR6	ESWGIRLAVWAIVLLSVLCNGLVLLTVFAGGPVPLPPVKFVVGAIAGANTLTGISCGLLASVDALTFGQFSEYGARWETG
	LGR4	GSWMIRLTVWFIFLVALFFNL LVILTTF A-SCTSLPSSKLFIGLISVSNLFMGIYTGILTF L DAVSWGRFAEFGIWWETG
	Consensus/80%	.tWhIRlsVWhIhlltIhhNhLVh.TsF..tsh.lss.KbhlGhItssNhbbGl.stlLs.lDAh*aGpFtcaGhbWESG

continued as Fig. 4 (2/2)

Fig. 4 (2/2)

continued from Fig. 4 (1/2)

5	LGR5	VGCHVIGFLSIFASESSVFLLTLAALERGFSVKYSAKFETKAPFSSLKVIILLCALLALTMAAVPLLGGSKYGASPLCLP
	LGR6	LGCRATGFLAVLGSEASVLLLTLAAVQCSVSVSCVRAYGKSPSLGSVRAGVLGCLALAGLAAALPLASVGEYGASPLCLP
	LGR4	SGCKVAGFLAVFSSESALFLMLATVERSLSAKDIMKNGKSNHLKQFRVAALLAFLGATVAGCFPLFHRGEYSASPLCLP
	Consensus/80%	.GC+shGFLtLbtSEttlbLLhLAslppthSsp.....pps.b.ph+shhLhshhhAhhhtshPLh..tcYtASPLCLP
10	LGR5	--LPFGEPSTMGYMVALILLNSLCFLMMTIAYTKLYCNLDKGDLENIWDCSMVKHIALLLFTNCILNCPVAFLSFSSLIN
	LGR6	YAPPEGQPAALGFTVALVMMNSFCFLVAGAYIKLYCDLPRGDFEAVWDCAMVRHVAVLI FADGLLYCPVAFLSFASMLG
	LGR4	--FPTGETPSLGFTVTIVLLNSLAFLLMAVIYTKLYCNLEKEDLSENSQSSMIKHVAVLI FTNCIFFCPVAFFSFAPLIT
	Consensus/80%	...P.GpsssbGahVsLlbbNSbsFLhhshhYhKLYCsL.+ .Dbp...pstMl+HlAbLlFssslb.CPVAFbSftsbls
15	LGR5	LTFISPEVIK FILLVVVPLPACLNPLLYILFNPHFKEDLVSLRQTYVWTRSKHPSLMSINSDDVEKQSCDS-----TQ
	LGR6	LFPVTPEAVKSVLLVVLPLPACLNPLLYILFNPHFRDDLRLRLRPR-----AGDSGPLAYAAAGELEKSSCDS-----TQ
	LGR4	AISISPEIMKSVTLIFFPLPACLNPNVLYVFFNPKFKEDWKLLKRRVTKKSGSVSVSISSQGGCLEQDFYDCGMYSHLQG
	Consensus/80%	hh.1*PEhhK.lhLlhhPLPACLNPLLYlbFNP+F+-Db..L+.p.....t.pssl...sts..pc..hDs.....p.
20	LGR5	ALVTFTSSSITYDLPPS-----SVPSPAYPVTESCHLS-----
	LGR6	ALVAFSDVDLILEASEAGRPPGLETYGFPSVTLISCCQPGAPRLEGSHCVEPEGNHFGNPQPSMDGELLRLRAEGSTPAGG
	LGR4	NLTVDCCESEFLTKPVSCKHLIKSHSCPALAVASCQRPEGYWSDCGTQSAHSDYADEEDSFVSDSSDQVQACGRACFYQ
	Consensus/80%	sLsshssp.hb.h..s.....Ss.pP.h...-ssp.s.....
25	LGR5	-----SVAFPCL
	LGR6	GLSGGGGFQPSGLAFASHV
	LGR4	SRGFPLVRYAYNLPRVKD-
	Consensus/80%	.....slsbs.p.
30		